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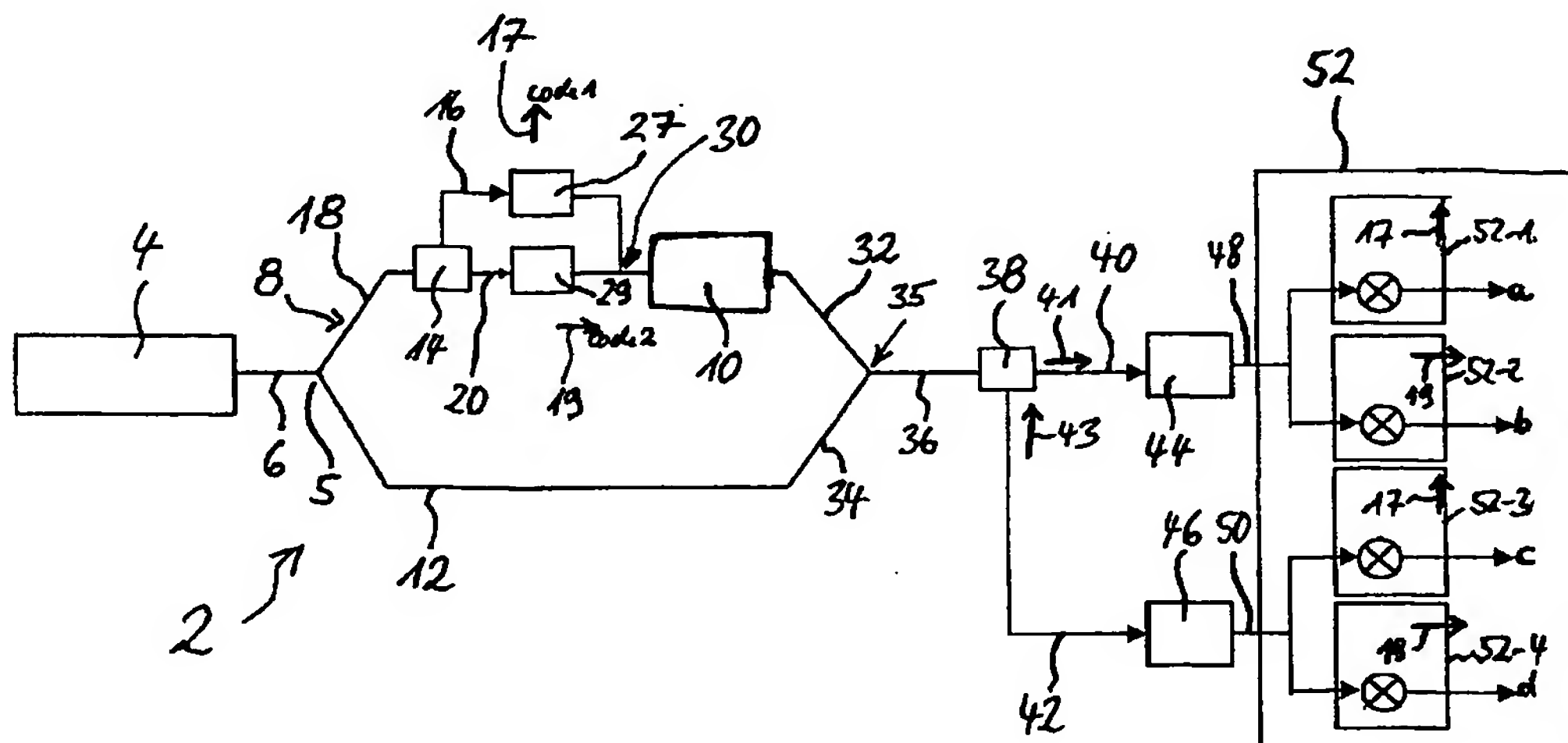
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(54) Title: CODED POLARIZATION-DEPENDENT ANALYZING



(57) Abstract: The present invention relates to an apparatus and to a method of polarization dependent analyzing an optical signal (6) transmitted through a DUT (10), comprising the steps of: splitting the optical signal (6) into a first signal part (16) having an initial first polarization and a second signal part (20) having an initial second polarization, coding the first signal part (16) using a first code (17, code 1) and coding the second signal part (20) using a second code (17, code 2), providing the coded signal parts (16, 6a, 20, 6b, 6c, 6d) to the DUT (10), detecting a DUT signal (32) coming from the DUT (10) in response to the coded signal parts (16, 6a, 20, 6b, 6c, 6d), and determining a first part (a, c) of the DUT signal (32) corresponding to the first signal part (16) by means of the first code (17, code 1) and determining a second part (b, d) of the DUT signal (32) corresponding to the second signal part (20) by means of the second code (17, code 2).